

11W 1714

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

U.S. Serial No.:	10/574,178)	
)	Examiner: N/A
Applicant:	Horiata; Atsushki et al.)	
)	Group Art Unit: 1714
Filed:	March 30, 2006)	
)	Docket No.: 7176.3019.001
Title:	Vinyl Chloride Based Fiber and)	
	Method for Production Thereof)	

TRANSMITTAL LETTER

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Enclosed are the following items to be filed with the above-identified application:

1. Notification Concerning Transmittal of Copy of International Preliminary Report on Patentability;
2. The International Preliminary Report on Patentability; and
3. The Translation of the Written Opinion of the International Searching Authority.

The patents mentioned in the Written Opinion were sent with an earlier IDS filed March 30, 2006.

The Commissioner is hereby authorized and respectfully requested to charge any deficiencies or credit any overpayments to our Deposit Account No. 50-0852. A duplicate copy of this sheet is enclosed.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on **October 13, 2006**.

Noelle Schultz
Noelle Schultz

Respectfully submitted,

REISING, ETHINGTON,
BARNES, KISSELLE, P.C.

William H. Griffith
William H. Griffith Reg. No. 16,706
P.O. Box 4390
Troy, Michigan 48099-4390
(248) 689-3500

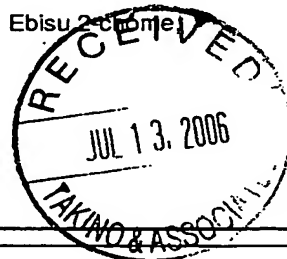
From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rules 44bis.3(c) and 72.2)

To:

TAKINO, Hideo
4th Floor, Hiroo SK bldg., 36-13, Ebisu 2-chome,
Shibuya-ku, Tokyo
1500013
JAPON



Date of mailing (day/month/year) 06 July 2006 (06.07.2006)	p86851	IMPORTANT NOTIFICATION
Applicant's or agent's file reference E01944WO		
International application No. PCT/JP2004/013215	International filing date (day/month/year) 10 September 2004 (10.09.2004)	
Applicant DENKI KAGAKU KOGYO KABUSHIKI KAISHA et al		

1. Transmittal of the translation to the applicant.



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer

Yoshiko Kuwahara

Facsimile No. +41 22 338 82 70

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference E01944WO	FOR FURTHER ACTION	See item 4 below
International application No. PCT/JP2004/013215	International filing date (<i>day/month/year</i>) 10 September 2004 (10.09.2004)	Priority date (<i>day/month/year</i>) 03 October 2003 (03.10.2003)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant DENKI KAGAKU KOGYO KABUSHIKI KAISHA		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the report |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Date of issuance of this report 26 June 2006 (26.06.2006) Authorized officer <div style="text-align: center; font-weight: bold;">Yoshiko Kuwahara</div> e-mail: pt07@wipo.int
---	---

PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing
(day/month/year)

Applicant's or agent's file reference

E01944WO

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2004/013215

International filing date (day/month/year)

10.09.2004

Priority date (day/month/year)

03.10.2003

International Patent Classification (IPC) or both national classification and IPC

Applicant

DENKI KAGAKU KOGYO KABUSHIKI KAISHA

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/013215

Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language
_____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2004/013215

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims 3, 4, 7

YES

Claims 1, 2, 5, 6

NO

Inventive step (IS)

Claims 3, 4, 7

YES

Claims 1, 2, 5, 6

NO

Industrial applicability (IA)

Claims 1-7

YES

Claims _____

NO

2. Citations and explanations:

Claims 1 and 2

In the description in document 1, paragraph [0055], Table 1, a stabilizer composition containing a hydrotalcite compound at 72.6% as an stabilizer is used, and 3 weight parts of the said stabilizer composition and 1 weight part of an epoxidated soybean oil are added to 100 weight parts of a vinyl chloride resin; and therefore, the result agrees with the composition of (a)-(c) of claim 1.

Claims 5 and 6

In the description of extruding conditions in document 1, paragraph [0058], the nozzle resin temperature is about 190°C. In addition, in document 1, paragraph [0059], extending conditions are 3.5 times at a temperature of 110°C, and slack by 25% at 115°C.

Consequently the subject matters of claims 1, 2, 5 and 6 do not appear to be novel.

Claims 3, 4 and 7

None of the documents describe the feature that a polyol containing nitrogen is contained, and therefore, the subject matter of the above claims appear to be novel. The said feature produces an effect of making vinyl chloride fibers much better in controlling the discoloring, and therefore, the said subject matters also appear to involve an inventive step.

Documents

Document 1: JP, 2001-279523, A

Document 2: JP, 11-100714, A

Document 3: JP, 2000-328355, A